2019 Neurosurgery Rookie Camp

Friday July 5, 2019 to Saturday July 6, 2019
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<tr>
<td>Residents</td>
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Dear Residents,

On behalf of Department of Clinical Neurological Sciences and your instructors, we are pleased to welcome you to the 2019 Canadian National Neurosurgery Rookie Camp held in London, Ontario, at Western University, and hosted in the world class Canadian Surgical Technologies & Advanced Robotics (CSTAR) facility.

The Neurosurgery Rookie Camp was established eight years ago with the primary objective of supporting our new trainee’s with their transition into residency. Training programs across Canada recognize the steep learning curve faced during the first year and the positive impact that attending this focused surgical course can have on preparing you for the next six years. Over the next two-days, our goal is to provide you with the skills and knowledge necessary to manage the clinical scenarios you will face in your early neurosurgical rotations.

We have assembled a diverse team of instructors who are not only highly regarded in their subspecialty areas of expertise, but are also passionate about teaching and committed to your success. Please feel free to ask questions throughout the sessions and during the breaks to engage your learning as much as possible.

Training residents for modern neurosurgical care is difficult without the support of our industry partners, who are driving innovation and technological advancement. Our industry sponsors have been very generous with their support to ensure the Rookie Camp continues to provide you with a valuable educational experience. Please take time to speak with our industry representatives and visit the Platinum Sponsor booths.

Lastly, we need to recognize the efforts of Alicia Baertsoen, Lynn Denning, Rachel Daniels, Lisa Baker-Spiller, Alexandra Bolton and Nicole Farell in making this a successful learning event.

We hope you will have an enjoyable experience.

Sandrine deRibaupierre
Mel Boulton
ITINERARY

Department of Clinical Neurological Sciences

presents

2019 Neurosurgery Rookie Camp

CSTAR, London Health Sciences Centre
339 Windermere Road
London, ON
N6A 5A5

Thursday July 4th 2019

Arrive at Ontario Hall
230 Sarnia Road
London, ON
N6G 0N2

17:45 Voyageur pick up at Ontario Hall
18:00 Pre-course reception dinner at

Toboggan
585 Richmond Street
London, ON
N6A 3G2

21:30 Voyageur pick up at Toboggan
Friday July 5th 2019

Arrive at Canadian Surgical Technologies & Advanced Robotics (CSTAR)

London Health Sciences Centre
339 Windermere Road
Floor 7
London, ON
N6A 5A5

7:00  Voyageur to pick up residents at Ontario Hall
7:15  Registration & Continental Breakfast
7:30  Sponsor Exhibitions
7:50  Welcome & Overview of Day 1
8:00  Pre-Test
8:15  Surgical Skill Stations**  (See page 12 for descriptions)
10:45-11:00  Networking & Refreshment Break
11:00  Surgical Skill Stations  (continued)
13:00-13:30  Lunch & Photos
13:30  Surgical Cases Begin**
15:00-15:30  Refreshment Break  (See group schedules for break time)
16:30  Closing Remarks of Day 1
16:45  Voyageur pick up at front door of LHSC to Ontario Hall
18:50  Voyageur pick up at Ontario Hall
19:00  Rookie Camp Resident & Faculty Dinner at:
Blackfriars Restaurant
46 Blackfriars Street
London, ON
N6H 1K7
22:30  Voyageur pick up guests at Blackfriars Restaurant

**Please see Table for Surgical Skills Groups and Surgical Cases Timeline on next page
### Surgical Skills Groups Timeline – Friday Morning

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Group 5</th>
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</thead>
<tbody>
<tr>
<td>8:15</td>
<td>Pinning/Positioning</td>
<td>Drilling/Plating</td>
<td>Instruments, Knots &amp; Suturing</td>
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### Surgical Cases Group Timeline – Friday Afternoon

**Group 1:**
- 11:00-12:00 Station 1
- 12:00-13:00 Station 3
- 13:30-14:30 Station 5
- 14:30-15:00 Station 2
- 15:00-15:30 Coffee Break
- 15:30-16:30 Station 4

**Group 2:**
- 11:00-12:00 Station 3
- 12:00-13:00 Station 1
- 13:30-14:00 Station 2
- 14:00-14:30 Station 9
- 14:30-15:30 Station 4
- 15:30-16:00 Coffee Break
- 16:00-16:30 Station 7
Surgical Cases Group Timeline – Friday Afternoon (continued)

Group 3:
11:00-12:00        Station 4
12:00-12:30        Station 7
12:30-13:00        Station 2
13:30-14:30        Station 1
14:30-15:00        Station 9
15:00-15:30        Coffee Break
15:30-16:30        Station 3

Group 4:
11:00-11:30        Station 2
11:30-12:00        Station 9
12:00-13:00        Station 4
13:30-14:30        Station 3
14:30-15:30        Station 1
15:30-16:00        Coffee Break
16:00-16:30        Networking

Group 5:
11:00-12:00        Station 5
12:00-12:30        Station 2
12:30-13:00        Networking
13:30-14:30        Station 4
14:30-15:30        Station 3
15:30-16:30        Station 1
**Saturday July 6th 2019**

**Arrive at** Canadian Surgical Technologies & Advanced Robotics (CSTAR)

London Health Sciences Centre  
339 Windermere Road  
Floor 7  
London, ON  
N6A 5A5

7:15   Voyageur pick up at Ontario Hall  

7:45   Continental Breakfast & Networking

8:10   Welcome & Overview of Day 2

8:15   Surgical Cases**    (continued)

10:15-10:30   Refreshment Break

10:30   Surgical Cases    (continued)

13:30-14:00   Lunch

14:00   Surgical Cases    (continued)

15:00   Post-Testing & Closing Remarks

15:45   Voyageur pick up at UH Front Doors

**Please see Group Schedules for Surgical Cases on next page**
### Surgical Cases Group Timeline – Saturday

#### Group 1:

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<th>Time</th>
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### Surgical Cases Group Timeline – Saturday (continued)

**Group 4:**

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<th>Time</th>
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<tbody>
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<td>8:15-9:15</td>
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<td>9:15-9:45</td>
<td>Station 7</td>
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<td>9:45-10:15</td>
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**Group 5:**

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<td>Station 9</td>
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<tr>
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</table>
Residents will be completing these skills stations in groups, please refer to your group # for order of stations.

**SKILL: Pinning/Positioning**

**Objectives:**
- Understand the brain anatomy exposed in 3 basic craniotomies (pterional, trauma, and suboccipital)
- Manipulate the head to get it in the correct pinning position using either a Mayfield or Sugita headrest
- Review the different bony landmarks

**SKILL: Spine Dissection**

**Objectives:**
- Appreciate the use of tension in paraspinal muscle dissection
- Develop effective use of monopolar cautery to release muscle from vertebral elements
- Understand the role of operator versus assistant
- Obtain experience with laminectomy techniques (Kerrison; Ultrasonic bone blade)

**SKILL: Instruments, Knots & Suturing**

**Objectives:**
- Name the instruments and their use for performing a craniotomy or posterior spinal exposure
- Perform a standard instrument and hand tie
- Develop proficiency in skin closure techniques with interrupted and running stitches

**SKILL: Drilling/Plating**

**Objectives:**
- Be able to use basic neurosurgical power tools in performing a craniotomy
- Develop competence with cranial plating systems

**SKILL: Hemostasis & Tissue Resection**

**Objectives:**
- Understand and effectively practice bipolar cautery techniques
- Incorporate ultrasonic aspiration techniques for tissue resection
- Acquire bimanual dexterity with concurrent use of bipolar and aspiration device
Dr. Sean Barry

Dr. Sean Barry is in an Assistant Professor with the Division of Neurosurgery at Dalhousie University, in Halifax. He completed his medical school and neurosurgical residency at Dalhousie. During his residency, he obtained a master’s degree in Bioethics from K.U Leuven in Belgium. He subsequently completed a clinical fellowship in Spine Surgery at the Toronto Western Hospital. He has a busy clinical practice with an emphasis on disorders of the cervical spine. His research and teaching interests include Bioethical issues as they pertain to neuro and spinal surgery.

Dr. Mel Boulton

Dr. Mel Boulton is an Associate Professor in the Division of Neurosurgery at Western University. He earned a Bachelor of Science degree at Queen's University. Afterwards, Dr. Boulton attended the University of Toronto for Medical school and Neurosurgical training. He also received Fellowship training at St. Michael's Hospital. In 2008, Dr. Boulton joined Western as a member of the cerebrovascular group. He is the Co-Lead for the Competency by Design Neurosurgery Residency Program and assists with the development of the neurosurgery exam created by the RCPSC.

Dr. David Clarke

Dr. David Clarke is professor and Head of the Division of Neurosurgery in Dalhousie Medical School’s Department of Surgery, Chief and staff neurosurgeon at the QEII Health Sciences Centre in Halifax, Nova Scotia. He holds cross-appointments in the departments of Medical Neuroscience, Medicine (Division of Endocrinology) and Ophthalmology & Visual Sciences and is director of the Neuron Survival and Regeneration Lab. His areas of interest include epilepsy, neurotrauma, transsphenoidal surgery, and neurosurgical simulation.
**Dr. Sandrine de Ribaupierre**

Dr. de Ribaupierre is an Associate Professor, working as a paediatric neurosurgeon involved in paediatric and adult trauma, adult epilepsy and endoscopic surgery. Her main research areas are medical education, using virtual and augmented reality as an educational tool, with a special interest in neuroanatomy. She is also involved in surgical simulation with the development and evaluation of AR/VR tools for surgical simulation.

**Dr. George Ibrahim**

Dr. George Ibrahim is a pediatric neurosurgeon at the Hospital for Sick Children and Assistant Professor at the Institute of Biomaterials and Biomedical Engineering, the Institute of Medical Sciences and the Department of Surgery at the University of Toronto. He is also an Associate Scientist in the Neurosciences and Mental Health program as the SickKids Research Institute.

**Dr. Helen Levin**

Dr. Helen Levin is a paediatric emergency medicine physician. She completed medical school at Queen’s University followed by a paediatric residency and paediatric emergency medicine fellowship at Western University. Dr. Levin subsequently completed a simulation fellowship with the KidSIM program at the Alberta Children’s Hospital. Dr. Levin is a leader in simulation based education and is the current paediatric emergency medicine simulation director. Dr. Levin’s simulation interests include faculty development, CPD, and interdisciplinary simulation. Her research interests centres around the use of simulation in undergraduate and post-graduate teaching.
Dr. Stephen Lownie

Dr. Stephen Lownie is a neurosurgeon and neurointerventionalist with interests in vascular and skull base diseases. He is a Professor with the Division of Neurosurgery in the Departments of Clinical Neurological Sciences, Medical Imaging and Otolaryngology at Western in London, Ontario. Dr. Lownie obtained his MD at Dalhousie University, followed by postgraduate education in neurosurgery at Western, and diagnostic and interventional neuroradiology fellowships at Western and at UCLA. He is the first Canadian and one of the first people worldwide trained in both neurosurgery and interventional neuroradiology.

Dr. Keith MacDougall

Dr. Keith MacDougall is an Associate Professor in the Division of Neurosurgery at Western University. He completed medical school at the University of Alberta and neurosurgical training at Western University. After a year in Calgary as a general neurosurgeon, Dr. MacDougall returned to Western for a one-year fellowship in Pain Surgery and Deep Brain Stimulation, and subsequently completed a second fellowship in Epilepsy Surgery at the Austin Hospital in Melbourne, Australia. His clinical practice is focused on Functional Neurosurgery.

Dr. Joseph Megyesi

Dr. Joseph Megyesi is a Professor in the Division of Neurosurgery at Western University, specializing in neuro-oncology. He completed medical school at Western University and neurosurgical training at the University of Alberta Hospital in Edmonton. Following his residency, Dr. Megyesi completed fellowships at Harvard University and the University of Alberta. Dr. Megyesi coordinates the Neurosurgery Residency Seminar Series and former Chair of the Brain Tumour Foundation; leading the creation of the first Brain Tumour Registry in Canada.
Dr. Wai Ng

Dr. Wai Ng is an Associate Professor in the Division of Neurosurgery at Western University. He completed medical school, neurosurgical training and a spinal instrumentation at the University of Toronto. During his residency, Dr. Ng received his PhD in Axonal Regeneration after Mammalian Spinal Cord Injury. His clinical practice is focused on spine surgery he is the Chapter Director of London’s Think First Program, an international society that promotes head injury prevention among children.

Dr. Cian O’Kelly

Dr. Cian O’Kelly obtained his medical degree from the University of Alberta in 2001. He went on to complete postgraduate training in neurosurgery at the University of Toronto, becoming a fellow of the Royal College of Physicians and Surgeons of Canada in 2008. This was followed by a series of neurovascular fellowships at St. Michael’s Hospital and the Toronto Western Hospital, gaining expertise in both microsurgical and endovascular approaches to cerebrovascular disease. Dr. O’Kelly obtained an MSc in Clinical Epidemiology from the University of Toronto’s Department of Health Policy Management and Evaluation (2006), developing expertise in clinical trials, decision analysis, and health services research. His research interests include intracranial aneurysms, arteriovenous malformations, and occlusive cerebrovascular disease.

Dr. Andrew Parrent

Dr. Andrew Parrent is an Associate Professor in the Division of Neurosurgery at Western University and Associate Scientist at Robarts Research Institute in London. He received his B.Sc from Brock University in St. Catharine’s and completed medical school at the University of Toronto. Dr. Parrent completed his neurosurgical residency training at Dalhousie University in Halifax, followed by a two-year fellowship in Stereotactic and Functional Neurosurgery at the Toronto Hospital.
Dr. Adrianna Ranger

Dr. Adrianna Ranger is a paediatric neurosurgeon at the Children's Hospital of London Health Sciences Center and an Associate Professor in Division of Neurosurgery at Western University. She completed medical school at McMaster University and neurosurgical residency training at Western University. Dr. Ranger completed a paediatric neurosurgery fellowship at the Children's Hospital of Eastern Ontario in Ottawa and serves on the Board for the Brain Tumor Foundation of Canada and the Medical Advisory Committee of the Spina Bifida and Hydrocephalus Association of Ontario.

Dr. Gurinder Sangha

Dr. Sangha completed his Doctor of Medicine at the University of Toronto and then completed his Paediatric Residency and Paediatric Emergency Medicine Fellowship at Western University. Dr. Sangha joined the Division of Paediatric Emergency Medicine as a consultant in 2009. He is an Associate Professor in the Department of Paediatrics. He currently serves as the Program Director of Paediatric Emergency Medicine Fellowship at Western University and is the Medical Director of the Paediatric Simulation Program at Children's Hospital, LHSC. Dr. Sangha’s academic interests are in the areas of Paediatric trauma, resuscitation and medical simulation.

Dr. Fawaz Siddiqi

Dr. Fawaz Siddiqi is an Associate Professor in the Division of Neurosurgery at Western University. He completed medical school and neurosurgical residency training at Western University. During his residency, Dr. Siddiqi obtained a Master of Business Administration at the Richard Ivey School of Business with a Health Sector specialization. Following residency, he completed a complex spine surgery fellowship with a focus on adult degenerative and oncology with the Division of Orthopedic Surgery. Dr. Siddiqi is the Program Director for the Neurosurgery Residency Program.
Dr. Christopher Wallace

Dr. Christopher Wallace is a Professor at the University of Toronto with an active clinical practice in the prophylactic surgery for stroke (carotid endarterectomy), the repair of intracranial aneurysms and the multidisciplinary treatment of vascular malformations of the central nervous system. Dr. Wallace is the Director of the Toronto Western Research Institute and Program Director for the Neurosurgery Residency Program. He co-founded the University of Toronto Vascular Malformation Study Group in 1989.

We would like to thank Monique Erratt & the representatives from Codman for volunteering their time to teach our residents at the 2019 Neurosurgery Rookie Camp.
At Medtronic, our goal is to be an intrinsic partner in global neurological care, so that together, we can confront healthcare’s biggest challenges. The human brain is at the heart of our mission. It’s what gets us up in the morning and what keeps us innovating throughout the day. Our solutions are designed to support your growth, streamline your surgical workflow, manage complexities, and most importantly, enhance neurological patient outcomes.

Together, we can transform the way the world treats neurological disorders and diseases.
RESIDENTS

Dalhousie University
Abdulaziz Bokeris
Jenna Smith-Forrester

McGill University
Qais Alrashidi
Lior Elkaim
Wissam Al-Mugheiry

McMaster University
Mohamed Alhantoobi
Mohamad Kesserwan
Hassan Khayat

Sherbrooke University
Anne-Marie Langlois

University of Alberta
Alan Rheaume

University of British Columbia
Michael Rizzuto

University of Calgary
Jenna Mann
Branavan Manoranjan
Richard Yu

University of Manitoba
Andrew Ajisebutu

University of Ottawa
Hidy Girgis
Saleh Ben Nakhi
Alick Wang

University of Saskatchewan
Kristen Marciniuk
Bryan Renne

University of Toronto
Armann Malhotra
Karl Narvacan
Husain Shakil

Western University
Burnett Johnston
Mohammad Mohammad
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